

CP 620

Safety information for 2-Component-products

Issue date: 26/06/2025 Revision date: 26/06/2025 Supersedes: 20/03/2025 Version: 10.0

SECTION 1: Kit identification

1.1 Product identifier

Trade name CP 620

Product code BU Fire Protection



1.2 Details of the supplier of the Safety information for 2-Component-products

Switzerland

Swiss CPID No Kit: 254756-93; CP 620 A: 571808-22, CP 620 B: 571819-86

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

SECTION 3: Kit contents

Classification of the Product

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Inhalation) H332 Skin Irrit. 2 H315 H319 Eye Irrit. 2 Resp. Sens. 1 H334 Skin Sens. 1 H317 Carc. 2 H351 Repr. 2 H361d STOT SE 3 H335 STOT RE 2 H373 Aquatic Chronic 3 H412

Full text of H- and EUH-statements: see section 16

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS07

Danger

GHS08

Signal word (CLP)

Hazardous ingredients 4,4'-diphenylmethanediisocyanate, isomeres and homologues; 4,4'-

diphenylmethanediisocyanate; zinc borate

Hazard statements (CLP) H315 - Causes skin irritation.

26/06/2025 CH - en 1/33



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H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 - May cause respiratory irritation. H351 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) P260 - Do not breathe vapours.

P280 - Wear eye protection, protective clothing, protective gloves. P284 - In case of inadequate ventilation wear respiratory protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

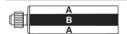
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P342+P311 - If experiencing respiratory symptoms: Call a doctor, a POISON CENTER.

As from 24 August 2023 adequate training is required before industrial or professional use

Additional information



Extra phrases

| Name | General description | Quantity | Unit | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------|---------------------|----------|--------------|---|
| CP 620, A | | 1 | pcs (pieces) | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 Repr. 2, H361 Aquatic Chronic 3, H412 |
| CP 620, B | | 1 | pcs (pieces) | Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 |

SECTION 4: General information

General advice For professional users only

SECTION 5: Safe handling advice

Environmental precautions Avoid release to the environment Storage conditions Store in a well-ventilated place.

Keep cool.

Precautions for safe handling Do not handle until all safety precautions have been read and understood.

Wear personal protective equipment

Do not breathe vapours.

Use only outdoors or in a well-ventilated area.

Avoid contact with skin and eyes

In case of inadequate ventilation wear respiratory protection.

Methods for cleaning up Take up liquid spill into absorbent material

Notify authorities if product enters sewers or public waters

SECTION 6: First aid measures

First-aid measures after eye contact Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion Call a poison center or a doctor if you feel unwell

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing.

Call a poison center or a doctor if you feel unwell

First-aid measures after skin contact Wash with plenty of water/...

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing.

First-aid measures general If you feel unwell, seek medical advice (show the label where possible)

Symptoms/effects after eye contact Eye irritation

Symptoms/effects after inhalation May cause respiratory irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact Irritation

May cause an allergic skin reaction.

SECTION 7: Fire fighting measures

Protection during firefighting

Hazardous decomposition products in case of

fire

Self-contained breathing apparatus Complete protective clothing

Toxic fumes may be released

Carbon dioxide
Carbon monoxide

SECTION 8: Other information

No data available

26/06/2025 CH - en 3/33



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 26.06.2025 Revision date: 26.06.2025 Supersedes version of: 27.09.2024 Version: 9.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Mixture
Trade name CP 620, A

Swiss CPID No Kit: 254756-93; CP 620 A: 571808-22

Product code BU Fire Protection

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category Professional use

Industrial/Professional use spec For professional use only

Use of the substance/mixture Firestop foam

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier Department issuing data specification sheet

Hilti Deutschland AG Hilti A

 Hiltistr. 2
 Feldkircherstraße 100

 DE 86916 Kaufering
 FL 9494 Schaan

 Deutschland
 Liechtenstein

 T +49 8191 90-0 , F +49 8191 90-1122
 T +423 234 2111

de.kundenservice@hilti.com product.compliance-fire.protection@hilti.com

1.4. Emergency telephone number

Emergency number Emergency CONTACT (24-Hour-Number):

GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H351
Carcinogenicity, Category 2 H351
Reproductive toxicity, Category 2 H361
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Suspected of damaging fertility or the unborn child. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS07

GHS08

Signal word (CLP)

Contains

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

Warning

hexaboron dizinc undecaoxide, heptahydrate; Reaction products of phosphoryl trichloride

and 2-methyloxirane

H315 - Causes skin irritation.

H319 - Causes serious eye irritation. H351 - Suspected of causing cancer.

H361 - Suspected of damaging the unborn child.. H412 - Harmful to aquatic life with long lasting effects.

P280 - Wear protective gloves, eye protection, protective clothing.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

| Component | |
|---|--|
| Ethylenediamine, propoxylated (25214-63-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Bis(2-dimethylaminoethyl) ether (3033-62-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| iron(III) oxide (1309-37-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether (1179964-22-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| hexaboron dizinc undecaoxide, heptahydrate (138265-88-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component | |
|--|---|
| Ethylenediamine, propoxylated (25214-63-5) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |



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| Component | |
|---|---|
| 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether (1179964-22-7) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| hexaboron dizinc undecaoxide, heptahydrate (138265-88-0) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| iron(III) oxide (1309-37-1) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-0) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| Bis(2-dimethylaminoethyl) ether (3033-62-3) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | Conc. | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|--|
| Ethylenediamine, propoxylated | CAS-No.: 25214-63-5 EC-No.: 500-035-6 REACH-no: 01-2119471485- 32 | 25 – 40 | Eye Irrit. 2, H319 |
| 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether | CAS-No.: 1179964-22-7 EC-No.: 926-564-6 REACH-no: 01-2119971810- 36 | 2.5 – 5 | Acute Tox. 4 (Oral), H302 (ATE=732 mg/kg bodyweight) |
| Reaction products of phosphoryl trichloride and 2-methyloxirane | CAS-No.: 1244733-77-4 EC-No.: 807-935-0 REACH-no: 01-2119486772- 26 | 2.5 – 5 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Carc. 2, H351 Aquatic Chronic 3, H412 |
| hexaboron dizinc undecaoxide, heptahydrate | CAS-No.: 138265-88-0 EC-No.: 235-804-2 | 2.5 – 5 | Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |



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| Name | Product identifier | Conc. | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|---|
| iron(III) oxide substance with national workplace exposure limit(s) (CH) | CAS-No.: 1309-37-1 EC-No.: 215-168-2 REACH-no: 01-2119457614- 35 | 2.5 – 5 | Not classified |
| 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol | CAS-No.: 83016-70-0 EC-No.: 406-080-7 EC Index-No.: 603-146-00-9 REACH-no: 01-0000015559- | 1 – 2.5 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Aquatic Chronic 3, H412 |
| Bis(2-dimethylaminoethyl) ether | CAS-No.: 3033-62-3 EC-No.: 221-220-5 | 0.1 – 1 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h) Skin Corr. 1B, H314 Aquatic Chronic 3, H412 |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact Irritation.
Symptoms/effects after eye contact Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire

Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Ensure good ventilation of the work station. Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood. Wear personal

protective equipment. Avoid contact with skin and eyes.

Hygiene measures Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Store locked up. Store in a well-ventilated place.

Storage temperature $5-25\,^{\circ}\text{C}$

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

| iron(III) oxide (1309-37-1) | |
|--|---|
| Switzerland - Occupational Exposure Limits | |
| Local name | Oxydes de fer / Eisenoxide |
| MAK (OEL TWA) | 3 mg/m³ (a) / (a) |
| Critical toxicity | Poumons, Fibpulm / Lunge, Lungenfibrose |
| Remark | NIOSH |
| Regulatory reference | www.suva.ch, 01.01.2023 |

8.1.2. Recommended monitoring procedures

No additional information available



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8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Protective clothing. Gloves.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves tested to EN374. Suitable for short-term work or as a splash guard:

Nitrile rubber gloves (> 0.1 mm). In case of permanent product contact:

| Hand protection | | | | | |
|-------------------|----------------------|-------------------|----------------|-------------|----------|
| Туре | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | >0,35mm | | |
| Disposable gloves | Butyl rubber | 6 (> 480 minutes) | >0,35mm | | |

8.2.2.3. Respiratory protection

Respiratory protection:

Not necessary with sufficient ventilation. Ensure good ventilation of the work station. Open windows during application to ensure natural ventilation. If the occupational exposure limit is exceeded: Wear appropriate mask. (e.g. gas filter type A1-P2 according to EN 14387)

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

No additional information available



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid Colour red. Not available Odour Odour threshold Not available Melting point Not applicable Freezing point Not available Boiling point Not available Flammability Not applicable Lower explosion limit Not available Upper explosion limit Not available

Auto-ignition temperature Not available Decomposition temperature Not available Not determined Viscosity, kinematic Not available Solubility Not available Partition coefficient n-octanol/water (Log Kow) Not available Not available Vapour pressure Vapour pressure at 50°C Not available ≈ 1.3 g/cm³ Density Relative density Not available Relative vapour density at 20°C Not available Particle characteristics Not applicable

9.2. Other information

Flash point

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content 15 mg/l EPA method 24 (CP 620, Comp. A + B)

Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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SECTION 11: Toxicological information

| 11.1. Information on hazard classes as o | defined in Regulation (EC) No 1272/2008 |
|--|--|
| Acute toxicity (oral) | Not classified |
| Acute toxicity (dermal) | Not classified |
| Acute toxicity (inhalation) | Not classified |
| Bis(2-dimethylaminoethyl) ether (3033-62-3) | |
| LD50 oral rat | 677 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 311 – 316 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Converted value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat (Dust/Mist) | 4 mg/l/4h (OECD 403 method) |
| LC50 Inhalation - Rat (Vapours) | > 2204 mg/l/4h (OECD 403 method) |
| 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-a | mino)ethanol (83016-70-0) |
| LD50 oral rat | 1364 mg/kg bodyweight (Other, Rat, Male / female, Experimental value, Oral) |
| LD50 oral | 1364 mg/kg |
| LD50 dermal rabbit | 5700 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal) |
| iron(III) oxide (1309-37-1) | |
| LD50 oral rat | > 10000 mg/kg bodyweight (Rat, Male, Experimental value, Oral) |
| LD50 oral | 10000 mg/kg |
| LC50 Inhalation - Rat | 5.05 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s)) |
| LC50 Inhalation - Rat (Dust/Mist) | 5.05 mg/l/4h |
| 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphe 22-7) | enol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether (1179964- |
| LD50 oral rat | 732 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| hexaboron dizinc undecaoxide, heptahydrate | e (138265-88-0) |
| LD50 oral rat | > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | > 4.95 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Readacross, Inhalation (dust), 14 day(s)) |
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eve damage/irritation | pH: Not determined |
| Serious eye damage/irritation | Causes serious eye irritation. pH: Not determined |
| Respiratory or skin sensitisation | Not classified |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Suspected of causing cancer. |
| Caromogemony | ouspooled of causing cancer. |



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| iron(III) oxide (1309-37-1) | |
|-----------------------------|--|
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | Suspected of damaging the unborn child |
| STOT-single exposure | Not classified |
| STOT-repeated exposure | Not classified |
| Aspiration hazard | Not classified |

11.2. Information on other hazards

No additional information available

| SECTION 12: Ecological information | |
|--|---|
| 12.1. Toxicity | |
| Ecology - general Hazardous to the aquatic environment, short–term (acute) | Harmful to aquatic life with long lasting effects. Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | Harmful to aquatic life with long lasting effects. |
| Ethylenediamine, propoxylated (25214-63-5) | |
| LC50 - Fish [1] | 4500 mg/l Leuciscus idus (golden orfe) |
| EC50 72h - Algae [1] | 35 mg/l |
| NOEC chronic crustacea | > 1 mg/l |
| Bis(2-dimethylaminoethyl) ether (3033-62-3) | |
| LC50 - Fish [1] | 131.2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 - Crustacea [1] | 102 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 algae | 24 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino) | ethanol (83016-70-0) |
| LC50 - Fish [1] | > 320 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1] | 72 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 algae | > 110 mg/l (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| iron(III) oxide (1309-37-1) | |
| EC50 - Crustacea [1] | > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| hexaboron dizinc undecaoxide, heptahydrate (1382 | 65-88-0) |
| LC50 - Fish [1] | 169 μg/l (ASTM E729-88, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Readacross) |
| EC50 - Crustacea [1] | 155 – 413 μg/l (US EPA, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Readacross) |



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| Bioaccumulative potential Not bioaccumulative 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70- | adable in water. ot applicable. rganic) oroducts with Propylene oxide and n-butyl glycidyl ether (1179964- radable. ot applicable. |
|--|--|
| 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-Persistence and degradability Not readily biodeginon(III) oxide (1309-37-1) Persistence and degradability Biodegradability: In Chemical oxygen demand (COD) Not applicable (In Not applicable) (In Not bioaccumulative) (In Not | adable in water. ot applicable. rganic) oroducts with Propylene oxide and n-butyl glycidyl ether (1179964- radable. ot applicable. |
| Persistence and degradability Persistence and degradability Persistence and degradability Chemical oxygen demand (COD) ThOD Not applicable (inc., 2.2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction 22-7) Persistence and degradability biologically not decease and degradability Persistence and degradability biologically not decease and degradability Persistence and degradability Chemical oxygen demand (COD) ThOD Not applicable ThOD Not applicable BOD (% of ThOD) Not applicable 12.3. Bioaccumulative potential Bis(2-dimethylaminoethyl) ether (3033-62-3) Partition coefficient n-octanol/water (Log Pow) Bioaccumulative potential 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-Partition coefficient n-octanol/water (Log Pow) Bioaccumulative potential Not bioaccumulative potential | adable in water. pt applicable. rganic) products with Propylene oxide and n-butyl glycidyl ether (1179964- radable. pt applicable. |
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| Persistence and degradability biologically not descended by the degradability biologically not descended by the degradability biologically not descended by the degradability biologically not degradability: In the degradability biologically not degradability: In the degradability: In t | ot applicable. |
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| Chemical oxygen demand (COD) ThOD Not applicable BOD (% of ThOD) Not applicable 12.3. Bioaccumulative potential Bis(2-dimethylaminoethyl) ether (3033-62-3) Partition coefficient n-octanol/water (Log Pow) Bioaccumulative potential 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-Partition coefficient n-octanol/water (Log Pow) Partition coefficient n-octanol/water (Log Pow) O.48 (Experiment Method, 26 °C) Bioaccumulative potential iron(III) oxide (1309-37-1) Bioaccumulative potential Not bioaccumulative 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction 22-7) | |
| ThOD Not applicable BOD (% of ThOD) Not applicable 12.3. Bioaccumulative potential Bis(2-dimethylaminoethyl) ether (3033-62-3) Partition coefficient n-octanol/water (Log Pow) Bioaccumulative potential 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-Partition coefficient n-octanol/water (Log Pow) -0.48 (Experiment Method, 26 °C) Bioaccumulative potential Not bioaccumulative iron(III) oxide (1309-37-1) Bioaccumulative potential Not bioaccumulative 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction 22-7) | |
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| Partition coefficient n-octanol/water (Log Pow) -0.34 (Experiment Bioaccumulative potential Not bioaccumulative 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-Partition coefficient n-octanol/water (Log Pow) -0.48 (Experiment Method, 26 °C) Bioaccumulative potential Not bioaccumulative iron(III) oxide (1309-37-1) Bioaccumulative potential Not bioaccumulative 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction 22-7) | Lucky Fill Mathed A.O. Postition Operation 4 00 00 |
| Bioaccumulative potential 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-Partition coefficient n-octanol/water (Log Pow) Bioaccumulative potential iron(III) oxide (1309-37-1) Bioaccumulative potential Not bioaccumulative potential 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction 22-7) | Location Fill Matter of A.O. Doutition Confliction 4 (00 90) |
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| Partition coefficient n-octanol/water (Log Pow) -0.48 (Experiment Method, 26 °C) Bioaccumulative potential Not bioaccumulative iron(III) oxide (1309-37-1) Bioaccumulative potential Not bioaccumulative 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction 22-7) | е. |
| Method, 26 °C) Bioaccumulative potential iron(III) oxide (1309-37-1) Bioaccumulative potential Not bioaccumulative 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction 22-7) | |
| iron(III) oxide (1309-37-1) Bioaccumulative potential 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction 22-7) | I value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask |
| Bioaccumulative potential 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction 22-7) | e. |
| 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction 22-7) | |
| 22-7) | е. |
| Partition coefficient n-octanol/water (Log Pow) 4.8 | products with Propylene oxide and n-butyl glycidyl ether (1179964- |
| | |
| hexaboron dizinc undecaoxide, heptahydrate (138265-88-0) | |
| BCF - Fish [1] 116 – 60960 (21 d | y(s), Semi-static system, Marine water, Read-across, Fresh weight) |
| Bioaccumulative potential High potential for | |
| 12.4. Mobility in soil | ioaccumulation (BCF > 5000). |
| Bis(2-dimethylaminoethyl) ether (3033-62-3) | ioaccumulation (BCF > 5000). |
| Surface tension No data available | ioaccumulation (BCF > 5000). |
| Ecology - soil Low potential for a | |



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| 2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-0) | | |
|--|--|--|
| Surface tension | 61.3 mN/m (21 °C, 1 vol %, EU Method A.5: Surface tension) | |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 4.07 (log Koc, OECD draft TGP94/75, Experimental value, GLP) | |
| Ecology - soil | Low potential for mobility in soil. | |
| iron(III) oxide (1309-37-1) | | |
| Surface tension | Not applicable (solid) | |
| Ecology - soil | Adsorbs into the soil. | |
| hexaboron dizinc undecaoxide, heptahydrate (138265-88-0) | | |
| Surface tension | Data waiving | |
| Ecology - soil | Adsorbs into the soil. | |

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods Product/Packaging disposal recommendations European List of Waste (LoW, EC 2000/532)

HP Code

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Dispose in a safe manner in accordance with local/national regulations.

 $08\ 04\ 09^{\star}$ - waste adhesives and sealants containing organic solvents or other dangerous substances

HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence

HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

| in additional many letty into the transfer of | | | |
|---|----------------|----------------|----------------|
| ADR | IMDG | IATA | RID |
| 14.1. UN number or ID number | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |



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| ADR | IMDG | IATA | RID | |
|--|---|------|-----|--|
| 14.4. Packing group | 14.4. Packing group | | | |
| Not applicable | Not applicable Not applicable Not applicable Not applicable | | | |
| 14.5. Environmental hazards | 14.5. Environmental hazards | | | |
| Dangerous for the environment: No Marine pollutant: No Dangerous for the environment: No Dangerous for the environment for the e | | | | |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List < 0.1% or SCL.

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content 15 mg/l EPA method 24 (CP 620, Comp. A + B)

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)



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Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Switzerland

Swiss CPID No Kit: 254756-93; CP 620 A: 571808-22

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|----------------|--------|---------------------|
| Section | Changed item | Change | Comments |
| 2 | Classification | Added | H351 |
| 3 | | Added | TCPP: Carc. 2, H351 |

| Abbreviations and acronyms: | | |
|-----------------------------|---|--|
| CAS-No. | Chemical Abstract Service number | |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways | |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road | |
| ATE | Acute Toxicity Estimate | |
| BCF | Bioconcentration factor | |
| BLV | Biological limit value | |
| BOD | Biochemical oxygen demand (BOD) | |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | |
| DMEL | Derived Minimal Effect level | |
| DNEL | Derived-No Effect Level | |
| EC-No. | European Community number | |
| EC50 | Median effective concentration | |
| ED | Endocrine disruptor | |
| EN | European Standard | |
| IARC | International Agency for Research on Cancer | |
| IATA | International Air Transport Association | |
| IMDG | International Maritime Dangerous Goods | |
| IOELV | Indicative Occupational Exposure Limit Value | |
| LC50 | Median lethal concentration | |
| LD50 | Median lethal dose | |



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| Abbreviations and acronyms: | | |
|-----------------------------|---|--|
| LOAEL | Lowest Observed Adverse Effect Level | |
| N.O.S. | Not Otherwise Specified | |
| NOAEC | No-Observed Adverse Effect Concentration | |
| NOAEL | No-Observed Adverse Effect Level | |
| NOEC | No-Observed Effect Concentration | |
| vPvB | Very Persistent and Very Bioaccumulative | |
| WGK | Water Hazard Class | |
| VOC | Volatile Organic Compounds | |
| SDS | Safety Data Sheet | |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail | |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 | |
| PNEC | Predicted No-Effect Concentration | |
| PBT | Persistent Bioaccumulative Toxic | |
| OEL | Occupational Exposure Limit | |
| OECD | Organisation for Economic Co-operation and Development | |
| COD | Chemical oxygen demand (COD) | |
| ThOD | Theoretical oxygen demand (ThOD) | |
| TRGS | Technical Rules for Hazardous Substances | |
| TLM | Median Tolerance Limit | |
| STP | Sewage treatment plant | |

| Full text of H- and EUH-statements: | | |
|-------------------------------------|---|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 | |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 | |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 | |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 | |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 | |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 | |
| Carc. 2 | Carcinogenicity, Category 2 | |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | |
| Repr. 2 | Reproductive toxicity, Category 2 | |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B | |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 | |
| H302 | Harmful if swallowed. | |



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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H351 | Suspected of causing cancer. |
| H361 | Suspected of damaging the unborn child |
| H361d | Suspected of damaging the unborn child. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|------|--------------------|
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Irrit. 2 | H319 | Calculation method |
| Carc. 2 | H351 | Calculation method |
| Repr. 2 | H361 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

SDS_EU_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



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Issue date: 26.06.2025 Revision date: 20.03.2025 Supersedes version of: 27.09.2024 Version: 10.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Mixture Trade name CP 620, B

Kit: 254756-93; CP 620 B: 571819-86 Swiss CPID No

Product code **BU Fire Protection**

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category Professional use Use of the substance/mixture Firestop foam

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier Department issuing data specification sheet

Hilti Deutschland AG Hilti AG

Feldkircherstraße 100 Hiltistr. 2 DE 86916 Kaufering FL 9494 Schaan Deutschland Liechtenstein T +49 8191 90-0 , F +49 8191 90-1122 T +423 234 2111

de.kundenservice@hilti.com product.compliance-fire.protection@hilti.com

1.4. Emergency telephone number

Emergency number Emergency CONTACT (24-Hour-Number):

GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhalation:dust,mist) Category 4 H332 Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2 H319 Respiratory sensitisation, Category 1 H334 Skin sensitisation, Category 1 H317 Carcinogenicity, Category 2 H351 Specific target organ toxicity - Single exposure, Category 3, Respiratory H335

tract irritation

Specific target organ toxicity - Repeated exposure, Category 2 H373

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful if inhaled. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS07

GHS08

Signal word (CLP)

Hazard statements (CLP)

Contains

Danger

4,4'-diphenylmethanediisocyanate, isomeres and homologues; Reaction products of phosphoryl trichloride and 2-methyloxirane; 4,4'-methylenediphenyl diisocyanate;

diphenylmethane-4,4'-diisocyanate H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 - May cause respiratory irritation. H351 - Suspected of causing cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (CLP) P260 - Do not breathe vapours.

P280 - Wear protective gloves, protective clothing, eye protection. P284 - In case of inadequate ventilation wear respiratory protection. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or

doctor/physician.

Extra phrases As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

| Component | |
|--|--|
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component | | |
|---|---|--|
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 | |



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| Component | | |
|--|---|--|
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 | |
| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 | |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | Conc. | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|---|
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues | CAS-No.: 9016-87-9 EC-No.: 618-498-9 | 50 - 90 | Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 |
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate | CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005-00-9 REACH-no: 01-2119457014- 47 | 25 – 60 | Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 |
| Reaction products of phosphoryl trichloride and 2-methyloxirane | CAS-No.: 1244733-77-4 EC-No.: 807-935-0 REACH-no: 01-2119486772- 26 | 10 – 25 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Carc. 2, H351 Aquatic Chronic 3, H412 |

| Specific concentration limits: | | | |
|---|---|---|--|
| Name | Product identifier | Specific concentration limits | |
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues | CAS-No.: 9016-87-9 EC-No.: 618-498-9 | (0.1 ≤ C < 100) Resp. Sens. 1; H334 (5 ≤ C < 100) Skin Irrit. 2; H315 (5 ≤ C < 100) Eye Irrit. 2; H319 (5 ≤ C < 100) STOT SE 3; H335 | |



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| Specific concentration limits: | | | |
|---|--|---|--|
| Name | Product identifier | Specific concentration limits | |
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate | CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005-00-9 REACH-no: 01-2119457014- | $(0.1 \le C \le 100)$ Resp. Sens. 1; H334 $(5 \le C \le 100)$ Eye Irrit. 2; H319 $(5 \le C \le 100)$ Skin Irrit. 2; H315 $(5 \le C \le 100)$ STOT SE 3; H335 | |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

| 4.1. Description | of | first | aid | measures |
|------------------|----|-------|-----|----------|
|------------------|----|-------|-----|----------|

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory

symptoms: Call a POISON CENTER/doctor.

First-aid measures after skin contact Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention. Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash

occurs:

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If eye irritation

persists: Get medical advice/attention.

First-aid measures after ingestion Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation May cause respiratory irritation. May cause allergy or asthma symptoms or breathing

difficulties if inhaled. Danger of serious damage to health by prolonged exposure through

inhalation. May cause an allergic skin reaction.

Symptoms/effects after skin contact Irritation. May cause an allergic skin reaction. Causes skin irritation.

Symptoms/effects after eye contact Eye irritation. Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. Dry powder. Foam. Carbon dioxide. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire

Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing. Do not enter fire area without proper

protective equipment, including respiratory protection.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact

with skin and eyes. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper

protection.

Emergency procedures Ventilate area

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters. Soak up spills with inert solids, such as clay or diatomaceous earth as soon

as possible. Collect spillage. Store away from other materials.

Other information Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Wear personal protective equipment. Do not breathe

dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in

process area to prevent formation of vapour. Avoid breathing

dust/fume/gas/mist/vapours/spray.

Hygiene measures Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands, forearms and face thoroughly after

handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep only in

the original container in a cool, well ventilated place away from :

Incompatible products Strong bases. Strong acids.
Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5-25 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

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| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | |
|---|---|
| Switzerland - Occupational Exposure Limits | |
| Local name 4,4'-Diisocyanate de diphénylméthane / Diphenylmethan-4,4'-diisocyanat | |
| Notation | R, SS _C , B / H, SS _C , B |
| Regulatory reference | www.suva.ch, 01.01.2023 |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Protective clothing. Safety glasses. Avoid all unnecessary exposure.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

| Eye protection | | | |
|----------------|----------------------|-----------------|----------------|
| Туре | Field of application | Characteristics | Standard |
| Safety glasses | Droplet | | EN 166, EN 170 |

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves tested to EN374. Suitable for short-term work or as a splash guard:

Nitrile rubber gloves (> 0.1 mm). In case of permanent product contact:



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| Hand protection | | | | | |
|-------------------|----------------------|-------------------|----------------|-------------|----------|
| Туре | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | ≥ 0,35 | | |
| Disposable gloves | Butyl rubber | 6 (> 480 minutes) | ≥ 0,35 | | |

8.2.2.3. Respiratory protection

Respiratory protection:

Not necessary with sufficient ventilation. Ensure good ventilation of the work station. Open windows during application to ensure natural ventilation. If the occupational exposure limit is exceeded: Wear appropriate mask. (e.g. gas filter type A1-P2 according to EN 14387)

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

As from 24 August 2023 adequate training is required before industrial or professional use, www.feica.eu/PUinfo



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Colour amber.
Odour characteristic.
Odour threshold Not available
Melting point Not applicable
Freezing point Not available
Boiling point Not available

Flammability Not applicable, Non flammable.

Lower explosion limit Not available Not available Upper explosion limit Not available Flash point Not available Auto-ignition temperature Decomposition temperature Not available Not available Not available Viscosity, kinematic Not available Solubility Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Vapour pressure at 50°C Not available Density ≈ 1.032 g/cm³ Relative density Not available Relative vapour density at 20°C Not available



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Particle characteristics Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content 15 g/l EPA method 24 (CP 620, Comp. A + B)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) Not classified
Acute toxicity (dermal) Not classified

Acute toxicity (inhalation) Inhalation:dust,mist: Harmful if inhaled.

| initiation, adol, mot. Harman initiation. | | |
|---|---|--|
| CP 620, B | | |
| ATE CLP (dust,mist) 1.5 mg/l/4h | | |
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | | |
| LD50 oral rat > 10000 mg/kg (Rat, Literature study, Oral) | | |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit, Literature study, Dermal) | |

| LD50 dermal | 9400 mg/kg | |
|---|-----------------|--|
| LC50 Inhalation - Rat | 0.49 mg/l | |
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8) | | |
| LD50 oral rat | > 2000 mg/kg | |
| LD50 oral | 31600 mg/kg | |
| LD50 dermal rabbit | > 9400 mg/kg | |
| LC50 Inhalation - Rat (Dust/Mist) | > 0.368 mg/l/4h | |

Skin corrosion/irritation Causes skin irritation.



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Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

Germ cell mutagenicity Not classified

Additional information Based on available data, the classification criteria are not met

Carcinogenicity Suspected of causing cancer.

| 4,4°-aipnenyim | ietnanediisocyanate, | isomeres and no | mologues (9016-87- | 9) |
|----------------|----------------------|-----------------|--------------------|----|
| | | | | |

IARC group 3 - Not classifiable

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)

IARC group 3 - Not classifiable

Reproductive toxicity Not classified

Additional information Based on available data, the classification criteria are not met

STOT-single exposure May cause respiratory irritation.

4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

STOT-single exposure May cause respiratory irritation.

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not classified

Additional information Based on available data, the classification criteria are not met

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and

symptoms

Harmful if inhaled.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

Not classified

Hazardous to the aquatic environment, long-term

(chronic)

Not classified

4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

LC50 - Other aquatic organisms [1] > 1000 mg/l (96 h, Literature study)

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12.2. Persistence and degradability

| CP 620, B | | |
|---|--|--|
| Persistence and degradability Not established. | | |
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | | |
| Persistence and degradability Not readily biodegradable in water. | | |

12.3. Bioaccumulative potential

| CP 620, B | | |
|---|--|--|
| Bioaccumulative potential | Not established. | |
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | | |
| BCF - Fish [1] | 268.1 l/kg (BCFBAF v3.01, Estimated value, Fresh weight) | |
| Partition coefficient n-octanol/water (Log Pow) | 10.46 (Calculated, KOWWIN) | |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). | |

12.4. Mobility in soil

| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | | |
|---|---|--|
| Surface tension | No data available in the literature | |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 9.078 – 10.597 (log Koc, SRC PCKOCWIN v2.0, Calculated value) | |
| Ecology - soil | Adsorbs into the soil. | |

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods
Product/Packaging disposal recommendations

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to hazardous or special waste collection point, in accordance with local,

regional, national and/or international regulation.

Ecological waste information

European List of Waste (LoW, EC 2000/532)

Avoid release to the environment. 08 05 01* - waste isocyanates

 $08\ 04\ 09^{\star}$ - waste adhesives and sealants containing organic solvents or other dangerous

substances



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HP Code

HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence

HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

| ADR | ADR IMDG | | RID | |
|--|-----------------------------|---------------|---------------|--|
| 14.1. UN number or ID number | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.4. Packing group | | | | |
| Not regulated Not regulated | | Not regulated | Not regulated | |
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated Not regulated | | Not regulated | |
| No supplementary information available | e | | | |

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable



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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|--|---|--|
| Reference code | nce code Applicable on | |
| 74. | 4,4'-diphenylmethanediisocyanate, isomeres and homologues | |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

VOC Directive (2004/42)

15 g/l EPA method 24 (CP 620, Comp. A + B)

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Switzerland

VOC content

Swiss National Regulations

Artikel 13 Mutterschutzverordnung (SR 822.111.52):

Schwangere Frauen und stillende Mütter dürfen bei ihrer Arbeit nur dann mit dieser Zubereitung in Kontakt kommen oder dieser ausgesetzt werden, wenn auf Grund einer Risikobeurteilung durch eine Fachperson feststeht, dass im Kontext mit den Tätigkeiten und den getroffenen Schutzmassnahmen die Exposition zu keinen Schädigungen für Mutter und Kind führt.

Article 4, subparagraph 4 Order on the protection of young workers (OLT 5, RS 822.115) and Article 1, letter f Order of the DEFR on dangerous works for young workers (822.115.2): Young workers undergoing initial professional training cannot work with this product (this substance/this preparation) except where envisaged in the order of professional training to achieve the training purposes and if the training plan conditions and applicable age limits are respected. Young workers who do not undergo initial professional training cannot work with this product (this substance/this preparation). Workers of either sex aged under 18 years old are considered as young.

Kit: 254756-93; CP 620 B: 571819-86

Swiss CPID No

15.2. Chemical safety assessment

No chemical safety assessment has been carried out



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SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|--------------|--------|---------------------|
| Section | Changed item | Change | Comments |
| | | | general update |
| 3 | | Added | TCPP: Carc. 2, H351 |

| Abbreviations and acronyms: | | |
|-----------------------------|---|--|
| CAS-No. | Chemical Abstract Service number | |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways | |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road | |
| ATE | Acute Toxicity Estimate | |
| BCF | Bioconcentration factor | |
| BLV | Biological limit value | |
| BOD | Biochemical oxygen demand (BOD) | |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | |
| DMEL | Derived Minimal Effect level | |
| DNEL | Derived-No Effect Level | |
| EC-No. | European Community number | |
| EC50 | Median effective concentration | |
| ED | Endocrine disruptor | |
| EN | European Standard | |
| IARC | International Agency for Research on Cancer | |
| IATA | International Air Transport Association | |
| IMDG | International Maritime Dangerous Goods | |
| IOELV | Indicative Occupational Exposure Limit Value | |
| LC50 | Median lethal concentration | |
| LD50 | Median lethal dose | |
| LOAEL | Lowest Observed Adverse Effect Level | |
| N.O.S. | Not Otherwise Specified | |
| NOAEC | No-Observed Adverse Effect Concentration | |
| NOAEL | No-Observed Adverse Effect Level | |
| NOEC | No-Observed Effect Concentration | |
| vPvB | Very Persistent and Very Bioaccumulative | |
| WGK | Water Hazard Class | |



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| Abbreviations and acronyms: | | |
|-----------------------------|---|--|
| VOC | Volatile Organic Compounds | |
| SDS | Safety Data Sheet | |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail | |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 | |
| PNEC | Predicted No-Effect Concentration | |
| PBT | Persistent Bioaccumulative Toxic | |
| OEL | Occupational Exposure Limit | |
| OECD | Organisation for Economic Co-operation and Development | |
| COD | Chemical oxygen demand (COD) | |
| ThOD | Theoretical oxygen demand (ThOD) | |
| TRGS | Technical Rules for Hazardous Substances | |
| TLM | Median Tolerance Limit | |
| STP | Sewage treatment plant | |

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

None.

| Full text of H- and EUH-statements: | | |
|-------------------------------------|--|--|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 | |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 | |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 | |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 | |
| Carc. 2 | Carcinogenicity, Category 2 | |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | |
| Resp. Sens. 1 | Respiratory sensitisation, Category 1 | |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 | |
| Skin Sens. 1 | Skin sensitisation, Category 1 | |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 | |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | |
| H302 | Harmful if swallowed. | |
| H315 | Causes skin irritation. | |
| H317 | May cause an allergic skin reaction. | |
| H319 | Causes serious eye irritation. | |
| H332 | Harmful if inhaled. | |



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| Full text of H- and EUH-statements: | | |
|-------------------------------------|--|--|
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
| H335 | May cause respiratory irritation. | |
| H351 | Suspected of causing cancer. | |
| H373 | May cause damage to organs through prolonged or repeated exposure. | |
| H412 | Harmful to aquatic life with long lasting effects. | |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|------|--------------------|
| Acute Tox. 4 (Inhalation:dust,mist) | H332 | Calculation method |
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Irrit. 2 | H319 | Calculation method |
| Resp. Sens. 1 | H334 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Carc. 2 | H351 | Calculation method |
| STOT SE 3 | H335 | Calculation method |
| STOT RE 2 | H373 | Calculation method |

SDS_EU_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.